



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448A/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/643,365
		Filing Date	August 19, 2003
		First Named Inventor	Raymond Guimont
		Art Unit	3724
		Examiner Name	Not Assigned
Sheet 1	of 3	Attorney Docket Number	6579-0099-1

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
h		US- 3,468,331	09-23-1969	C.D. O'Neal	
		US- 3,495,604	02-17-1970	R. P. Trask II	
		US- 3,495,608	02-17-1970	R. F. O'Keefe	
		US- 3,528,445	09-15-1970	J. N. Shinn et al.	
		US- 3,534,757	10-20-1970	M. C. Doherty	
		US- 3,548,849	12-22-1970	E. J. Purcell	
		US- 3,587,614	06-28-1971	A. Burke	
		US- 3,587,615	06-28-1971	D. J. Thomson	
		US- 3,604,417	09-14-1971	S. J. Stolzenberg	
		US- 3,658,088	04-25-1972	Jensen et al.	
		US- 3,731,700	05-08-1973	Cohen	
		US- 3,747,628	07-24-1973	Holster et al.	
		US- 3,811,474	05-21-1974	Bauer et al.	
		US- 4,012,551	03-15-1977	Bogaty et al.	
		US- 4,238,882	12-16-1980	Harrison, Sr.	
		US- 4,272,885	06-16-1981	Ferraro	
		US- 4,340,048	07-20-1982	Eckenhoff	
		US- 4,809,432	03-07-1989	Schauble	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>Ali</i>	Date Considered	12/10/04
-----------------------	------------	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 2

of 3

**Complete if Known**

Application Number	10/643,365
Filing Date	August 19, 2003
First Named Inventor	Raymond Guimont
Art Unit	3724
Examiner Name	Not Assigned
Attorney Docket Number	6579-0099-1

**U. S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
h		US- 4,868,982	09-26-1989	McComas	
		US- 4,880,631	11-14-1989	Haslam et al.	
		US- 4,984,364	01-15-1991	Simmons	
		US- 5,263,256	11-23-1993	Trankiem	
		US- 5,283,952	02-08-1994	Mock et al.	
		US- 5,331,740	07-26-1994	Carson, III et al.	
		US- 5,377,409	01-03-1995	Chen	
		US- 5,384,961	01-31-1995	Gregory	
		US- 5,412,872	05-09-1995	Iderosa	
		US- 5,417,235	05-23-1995	Wise et al.	
		US- 5,635,358	06-03-1997	Wilding et al.	
		US- 5,637,469	06-10-1997	Wilding et al.	
		US- 5,645,894	07-08-1997	Trankiem	
		US- 5,660,703	08-26-1997	Dasgupta	
		US- 5,672,167	09-30-1997	Athayde et al.	
		US- 5,876,675	03-02-1999	Kennedy	
		US- 5,985,459	11-16-1999	Kwiecien et al.	
		US- 6,103,199	08-15-2000	Bjornson et al.	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner  
SignatureDate  
Considered

12/10/04

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031  
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/643,365
		Filing Date	August 19, 2003
		First Named Inventor	Raymond Guimont
		Art Unit	3724
		Examiner Name	Not Assigned
Sheet 3 of 3	Attorney Docket Number	6579-0099-1	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
✓		US- 6,167,910 B1	01-02-2001	Chow	
		US- 6,269,846 B1	08-07-2001	Overbeck et al.	
		US- 6,281,254 B1	08-28-2001	Nakajima et al.	
		US- 6,306,273 B1	10-23-2001	Wainright et al.	
✓		US- 2003/0154832 A1	08-21-2003	Guimont et al.	
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			
		US-			

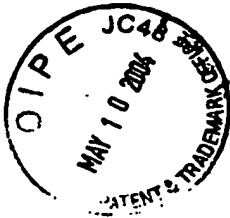
FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)				

Examiner Signature	<i>Alm</i>	Date Considered	12/10/04
--------------------	------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.



PTO/SB/08b(08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO		<b>Complete if Known</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		Application Number	10/643,365
		Filing Date	August 19, 2003
		First Named Inventor	Raymond Guimont
		Art Unit	3724
		Examiner Name	Not Assigned
		Attorney Docket Number	6579-0099-1
Sheet	1	of	2

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
h		WTEC Hyper-Librarian, "MEMS/Microsystems Device and Process Technologies", January 2000, pages 1-25, Section 5.	
		Adara, "Microfluidic Devices", pages 1-2.	
		Adara, "How the Technology Works", page 1.	
		Adara, "Plastic LabCard™ Device Fabrication", pages 1-2.	
		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Liquid Mixing", page 1.	
		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Liquid Division", pages 1-2.	
		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Sequential Liquid Delivery", pages 1-2.	
		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Consolidation", page 1.	
		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Ablate Well", page 1.	
h		BioMicro Technologies Systems, "Passive Fluid Control Micro Fluid Analysis, Ablate Channel", page 1.	

Examiner Signature		Date Considered	12/10/04
-----------------------	--	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/08b(08-03)

Approved for use through 07/31/2008, OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO				<b>Complete if Known</b> <table border="1"> <tr> <td>Application Number</td> <td>10/643,365</td> </tr> <tr> <td>Filing Date</td> <td>August 19, 2003</td> </tr> <tr> <td>First Named Inventor</td> <td>Raymond Guimont</td> </tr> <tr> <td>Art Unit</td> <td>3724</td> </tr> <tr> <td>Examiner Name</td> <td>Not Assigned</td> </tr> <tr> <td>Attorney Docket Number</td> <td>6579-0099-1</td> </tr> </table>		Application Number	10/643,365	Filing Date	August 19, 2003	First Named Inventor	Raymond Guimont	Art Unit	3724	Examiner Name	Not Assigned	Attorney Docket Number	6579-0099-1
Application Number	10/643,365																
Filing Date	August 19, 2003																
First Named Inventor	Raymond Guimont																
Art Unit	3724																
Examiner Name	Not Assigned																
Attorney Docket Number	6579-0099-1																
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>																	
Sheet	2	of	2														

[illegible]

Examiner Signature	<i>HL</i>	Date Considered	12/10/04
-----------------------	-----------	--------------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.88. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

***If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.***